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- 1 [Open runtime platform: flexibility with performance using interfaces](#)

Michał Cierniak, Brian T. Lewis, James M. Stachnoth

November 2002 JGI '02: Proceedings of the 2002 joint ACM-ISCOPE conference on Java G

Publisher: ACM

Full text available: Pdf (300.99 KB) Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 40, Citation Count: 3

According to conventional wisdom, interfaces provide flexibility at the cost of performance. Java virtual machines today tightly integrate their core virtual machines with in-time compilers and garbage collectors to get ...

Keywords: JVM, Java, dynamic compilation, garbage collection, interface design, in-time compilation, modular components, virtual machine

- 2 [Practicing JUDO: Java under dynamic optimizations](#)

Michał Cierniak, Gui-Yuan Lueh, James M. Stachnoth

August 2000 PLDI '00: Proceedings of the ACM SIGPLAN 2000 conference on Programming design and implementation

Publisher: ACM

Full text available: Pdf (190.06 KB) Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 92, Citation Count: 57

A high-performance implementation of a Java Virtual Machine (JVM) consists of efficient implementation of Just-In-Time (JIT) compilation, exception handling, synchronization and garbage collection (GC). These components are tightly coupled ...

Also published in:

May 2000 SIGPLAN Notices Volume 35 Issue 5

- 3 [Proxy compilation of dynamically loaded Java classes with MoJo](#)

Matt Newsome, Des Watson

July 2002 LCTES/ SCOPES '02: Proceedings of the joint conference on Languages, compilation for embedded systems: software and compilers for embedded systems

Publisher: ACM

Full text available: Pdf (358.62 KB) Additional Information: full citation, abstract, references, index

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 46, Citation Count: 1

Interest in Java implementations for resource-constrained environments such as embedded systems has been tempered by concerns regarding its efficiency. Current native compilers for Java have dramatic increases in efficiency, but have poor support for ...

Keywords: AOT, JIT, adaptive compilation, ahead-of-time, dynamic class loading, hot time, native compilation, proxy compilation, remote compilation

Also published in:

July 2002 SIGPLAN Notices Volume 37 Issue 7

- 4 A generic component model for building systems software

Geoff Coulson, Gordon Blair, Paul Grace, Francois Taiani, Ackbar Joolia, Kevin Lee, Jo Uey Thirunayukkarasu Sivaharan

February 2008 Transactions on Computer Systems (TOCS) , Volume 26 Issue 1

Publisher: ACM

Full text available: Pdf (603.88 KB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 77, Downloads (12 Months): 934, Citation Count: 1

Component-based software structuring principles are now commonplace at the application level. Componentization is far less established when it comes to building low-level systems such as operating systems. Although there have been pioneering efforts in applying componentization ...

Keywords: Component-based software, computer systems implementation

- 5 Constructing a metacircular Virtual machine in an exploratory programming environment

David Ungar, Adam Spitz, Alex Ausch

October 2005 OOPSLA '05: Companion to the 20th annual ACM SIGPLAN conference on Concurrency, programming, systems, languages, and applications

Publisher: ACM

Full text available: Mov (39:52 MIN), Pdf (755.82 KB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 107, Citation Count: 3

Can virtual machine developers benefit from religiously observing the principles more or less strictly? Can they benefit from exploring the principles more or less strictly? To find out, we are concurrently constructing two artifacts entirely in Self (the Klein VM), and a specialized ...

Keywords: Klein, code reuse, debugger, exploratory programming, fix-and-continue, liveness, meta-recursive, metacircularity, mirror-based reflection, object oriented, protocol, reactivity, remote reflection, self, virtual machine

- 6 HDTrans: an open source, low-level dynamic instrumentation system

Swaroop Sridhar, Jonathan S. Shapiro, Eric Northup, Prashanth P. Bungale

June 2006 VEE '06: Proceedings of the 2nd international conference on Virtual execution environments

Publisher: ACM

Full text available: Pdf (146.53 KB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 61, Citation Count: 3

Dynamic translation is a general purpose tool used for instrumenting programs at run time. Performance of translated execution relies on balancing the cost of translation against any optimizations achieved, and many current translators ...

Keywords: binary translation, dynamic instrumentation, dynamic translation

- 7 A middleware for experimentation on dynamic adaptation

Renato Maia, Renato Cerqueira, Fabio Kon

November 2005 ARM '05: Proceedings of the 4th workshop on Reflective and adaptive microsystems

Publisher: ACM

Full text available: Pdf (377.38 KB)

Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 24, Citation Count: 2

This paper presents Oil, an adaptive middleware that aims at supporting experimental different models and techniques for dynamic adaptation of distributed systems. Oil is implemented written completely in Lua, an interpreted language ...

Keywords: CORBA, adaptive middleware, dynamic adaptation, programming abstract middleware

8 Confessions of a used programming language salesman

Enk Meijer

October 2007 OOPSLA '07: Proceedings of the 22nd annual ACM SIGPLAN conference on programming systems and applications

Publisher: ACM

Full text available: Pdf (313.76 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index](#) [to](#)

Bibliometrics: Downloads (6 Weeks): 31, Downloads (12 Months): 369, Citation Count: 0

For many years I had been fruitlessly trying to sell functional programming and Haskell world problems such as scripting and data-intensive three-tier distributed web applicat of widespread adoption of Haskell is a real pity. ...

Also published in:

October 2007 SIGPLAN Notices Volume 42 Issue 10

9 Sifting out the mud: low level C++ code reuse

Bjorn De Sutter, Bruno De Bus, Koen De Bosschere

November 2002 OOPSLA '02: Proceedings of the 17th ACM SIGPLAN conference on Object programming, systems, languages, and applications

Publisher: ACM

Full text available: Pdf (1.35 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 44, Citation Count: 14

More and more computers are being incorporated in devices where the available amou limited. This contrasts with the increasing need for additional functionality and the nee application development. While object-oriented programming ...

Keywords: code compaction, code size reduction

Also published in:

November 2002 SIGPLAN Notices Volume 37 Issue 11

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